ABSTRACT OF THE DISCLOSURE

A first estimator **13** estimates the position of a head based on a VCM driving signal u_1 and a voltage signal Va output from a VCM **6** to output a first head position estimation signal x_{1est}. The first estimator **13** estimates the disturbance acting on a head supporting mechanism **8** to output a disturbance estimation signal τ_{dest}. A second estimator **15** estimates the displacement of the head based on a control signal c_2 for a fine adjustment actuator **7** to output a displacement estimation signal x_{2est}. The first head position estimation signal x_{1est} and the displacement estimation signal x_{2est} are added together to obtain a second head position estimation signal x_{est}. A position error signal e is generated using a head position signal x obtained by detecting the servo information and the second head position estimation signal x_{est}. A disturbance compensator **10** synthesizes a VCM control signal c_1 with the disturbance estimation signal τ_{dest} to generate the VCM driving signal u_1.